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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-15-03** **Date: 18-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of 1st floor Samudaya Bhavana Building at Hegdenagara (Near Dry Waste Collection centre) in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/172/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-17
Sample ID No	:	2017-03-15-03/01
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	16-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.392	515	625	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.615	522	636	19.0%	Satisfactory	Satisfactory
3	Indus	Fe500	12	0.887	535	647	19.0%	Satisfactory	Satisfactory
4	Indus	Fe500	16	1.581	547	659	20.0%	Satisfactory	Satisfactory
5	Indus	Fe500	20	2.48	558	570	18.0%	Satisfactory	Satisfactory
6	Indus	Fe500	25	3.852	566	574	18.0%	Satisfactory	Satisfactory
6	Indus	Fe500	32	6.314	592	605	18.5%	Satisfactory	Satisfactory

AE Ward no6

Note:
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Quality Manager

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2017-03-15-03** **Date: 21-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of 1st floor Samudaya Bhavana Building at Hegdenagara (Near Dry Waste Collection centre) in Ward no.06 Byatarayanapura Sub
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/172/2016-17
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-17
Sample ID No	:	2017-03-15-03/02
Identification Mark on Brick	:	B.R Bricks
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	15-03-17

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	190.22	90.31	17179	91.7	5.3	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	190.29	90.18	17160	97.6	5.7	
3	190.34	90.27	17182	91.3	5.3	
4	190.53	90.12	17171	89.5	5.2	
5	190.16	90.09	17132	94.6	5.5	
Average of 5 bricks					**5.4**	

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Lab ID : **CP-2017-03-15-03** **Date: 21-03-17**

Sample ID No : **2017-03-15-03/02**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	1.265	1.382	9.2	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	1.176	1.274	8.3	
3	1.196	1.311	9.6	
4	1.275	1.389	8.9	
5	1.218	1.328	9.0	
Average Water Absorption(%)			9.0	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	190.27	90.98	17311	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	190.33	90.18	17164	Slight	
3	190.72	90.39	17239	Slight	
4	190.19	90.98	17303	Slight	
5	190.28	90.19	17161	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(a)
1	Length	3815	3720 to 3880 mm
2	Width	1780	1760 to 1840 mm
3	Height	1794	1760 to 1840 mm

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-31-04** **Date: 03/04/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Construction of 1st floor Samudaya Bhavana Building at Hegdenagara (Near Dry Waste Collection centre) in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/172/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-17

Sample ID No : 2017-03-31-04/01

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	27/03/2017	03/04/2017	150.42 X 151.54 X 150.52	22795	8.328	371.6	16.3	16.9
2	Column Concrete	M20	27/03/2017	03/04/2017	149.28 X 150.54 X 151.27	22473	8.336	388.8	17.3	
3	Column Concrete	M20	27/03/2017	03/04/2017	149.37 X 150.54 X 150.31	22486	8.369	384.5	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-31-04** **Date: 24/04/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Construction of 1st floor Samudaya Bhavana Building at Hegdenagara (Near Dry Waste Collection centre) in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/172/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-17

Sample ID No : 2017-03-31-04/02

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	27/03/2017	24/04/2017	150.22 X 150.54 X 150.55	22614	8.111	497.5	22.0	21.9
2	Column Concrete	M20	27/03/2017	24/04/2017	150.22 X 150.54 X 150.55	22614	8.111	483.9	21.4	
3	Column Concrete	M20	27/03/2017	24/04/2017	150.22 X 150.54 X 150.55	22614	8.111	504.3	22.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-04-02** **Date: 07/05/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Construction of 1st floor Samudaya Bhavana Building at Hegdenagara (Near Dry Waste Collection centre) in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/172/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-17

Sample ID No : 2017-05-04-02/01

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	30/04/2017	07/05/2017	150.26 X 150.28 X 150.27	22581	8.366	395.2	17.5	17.7
2	Roof Concrete	M20	30/04/2017	07/05/2017	150.28 X 150.29 X 150.30	22586	8.380	408.8	18.1	
3	Roof Concrete	M20	30/04/2017	07/05/2017	150.30 X 150.20 X 150.27	22575	8.367	395.1	17.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-04-02** **Date: 28/05/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Construction of 1st floor Samudaya Bhavana Building at Hegdenagara (Near Dry Waste Collection centre) in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/172/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-17

Sample ID No : 2017-05-04-02/02

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	30/04/2017	28/05/2017	150.33 X 150.30 X 150.27	22595	8.402	485.8	21.5	21.8
2	Roof Concrete	M20	30/04/2017	28/05/2017	150.31 X 150.29 X 150.30	22590	8.413	501.5	22.2	
3	Roof Concrete	M20	30/04/2017	28/05/2017	150.35 X 150.20 X 150.27	22583	8.378	492.3	21.8	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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